A. Permit Certificate

WASTEWATER-LAND APPLICATION PERMIT

Wada Farms Potatoes, Inc.

#LA-000171-02

Wada Farms Potatoes, Inc. LOCATED AT **326 South 1400 West** AND IN **Township 3 South, Range 33 East, Parts of Sections 22 & 27** IS HEREBY AUTHORIZED TO CONSTRUCT, INSTALL AND OPERATE A WASTEWATER-LAND APPLICATION TREATMENT SYSTEM IN ACCORDANCE WITH THE WASTEWATER-LAND APPLICATION PERMIT REGULATIONS (IDAPA 58.01.17), THE WATER QUALITY STANDARDS AND WASTEWATER TREATMENT REQUIREMENTS (IDAPA 58.01.02), THE GROUND WATER RULE (IDAPA 58.01.11), AND ACCOMPANYING PERMIT APPENDICES AND ATTACHMENTS. THIS PERMIT IS EFFECTIVE FROM THE DATE OF SIGNATURE AND EXPIRES ON _____.

_____

MARK DIETRICH,
REGIONAL ADMINISTRATOR
IDAHO DEPARTMENT OF ENVIRONMENTAL QUALITY
POCATELLO REGIONAL OFFICE

SIGNED THIS _____ DAY OF _____, 20____

DEPARTMENT OF ENVIRONMENTAL QUALITY
Pocatello Regional Office
444 Hospital Way, Building #300 – 236-6160
Pocatello, ID. 83201

POSTING ON SITE RECOMMENDED

B. Permit Contents, Appendices and Attachments

List of Referenced Documents

1) Site Characterization and Management Plan, June 2003
2) Operations Plan for Land Application of Potato Fresh Pack Wash Water on Crops, June 2003

The Sections, Appendices, and Attachments listed on this page are all elements of Wastewater-Land Application Permit #LA-000171-02 and are enforceable as such. This permit does not relieve **Wada Farms Potatoes, Inc.,** hereafter referred to as the Permittee, from responsibility for compliance with other applicable federal, state or local laws, rules,

standards or ordinances.

C. Abbreviations, Definitions

Table C-1 Definitions, Terms, and Acronyms

TERM OR ACRONYM	DEFINITION/EXPLANATION
Ac-in	Ac-in = volume of water covering 1 acre of land to a depth of 1 inch = 27,150 gallons
AWS	Available water capacity = weighted composite of the available water holding capacity of the soil to a depth of sixty (60) inches or to the bottom of the root zone.
COD	Chemical Oxygen Demand
DEQ or the Department	the Department of Environmental Quality
Director	Director of the Department of Environmental Quality; as used in this permit, references to the Director also include the Director's Designee, i.e. Regional Administrator
EC	Electrical conductivity
ET or E	Estimate of Evaporation/Evapotranspiration during the NGS
GS	Growing Season – April 1 through October 31
GWQR	IDAPA 58.01.11 "Ground Water Quality Rule"
Handbook or Guidelines	Handbook for Land Application of Municipal and Industrial Wastewater, DEQ, April 1996
HLR_{GS}	The growing season hydraulic loading limit for each hydraulic management unit is given as: HLR_{GS} = Irrigation Water Requirement (IWR). The IWR is calculated as: $IWR = IR_{net} / E_i$ and $IR_{net} = CU – (PPT_{GS}$ + carryover soil moisture) + LR where: IR_{net} = net irrigation requirement, CU = consumptive use, PPT_{GS} = precipitation, LR = leaching requirement and E_i = irrigation efficiency.
HLR_{NGS}	The non-growing season hydraulic loading limit for each hydraulic management units is given as $HLR_{NGS}= (AWC+E-PPT_{NGS})+LR$; where AWC = available water capacity, E = evapotranspiration, PPT_{NGS} = non-growing season precipitation, and LR = leaching requirement
HDPE	High density polyethylene
HMU	Hydraulic Management Unit
IDAPA	Idaho Administrative Procedures Act
IWR	Irrigation Water Requirement – Any combination of wastewater, supplemental irrigation water and precipitation applied at rates commensurate to the moisture requirements of the crop, and calculated monthly during the growing season (GS). IWR calculation methodology can be found in the DEQ "Handbook for Land Application of Municipal and Industrial Wastewater, April 1996" on pages IV-6-7. Current climatic and ET data, or 30-year average data may be used. IWR calculation methodology can also be found at: http://www.kimberly.uidaho.edu/water/appndxet/index.shtml. The Kimberly equation is: $IWR = (CU – P_e) / E_i$ where CU is the monthly consumptive use for a given crop in a given climatic area. (CU is synonymous with crop evapotranspiration.) P_E is the effective precipitation. CU minus P_E is synonymous with the net irrigation requirement (IR). E_i is the irrigation system efficiency. To obtain the gross irrigation water requirement (IWR), divide the IR by the irrigation system efficiency. IWR *planning estimates* may also incorporate the judgement of experienced field operators. Whichever method is chosen must be used consistently throughout the application year and the life of the permit unless specific approval for a different methodology is granted by DEQ.
lb/ac-d	Pounds (of constituent) per acre per day

TERM OR ACRONYM	DEFINITION/EXPLANATION
MG	Million Gallons
MGA	Million Gallons Annually
mL	Milliliter
NGS	Non-growing season – November 1 through March 31
NVDS	Non volatile dissolved solids (Total dissolved solids less volatile dissolved solids)
OM	Organic Matter
Operating year	The operating year begins with the non-growing season and extends through the growing season of the following year – November 1 – October 31. For example, the 1999 operating year was November 1, 1999 through October 31, 2000.
PO	Plan of Operation – required for all permitted wastewater land application facilities pursuant to IDAPA 58.01.17.300.06
PPT_{NGS}	Average monthly precipitation during the NGS (inches)
SIW	Supplemental irrigation water
SMU	Soil monitoring unit
TDS	Total dissolved solids
TKN	Total Kjeldahl nitrogen – the sum of organic nitrogen and ammonia nitrogen
Typical crop uptake	The median crop nutrient uptake from the last three (3) years for each HMU. For HMU's having less than three years of crop uptake data, best estimates can be used on (an interim basis)
VDS	Volatile dissolved solids
WLAP	Wastewater Land Application Permit (or Program)
WW	Wastewater

D. Facility Information

Table D-1 Facility Information

Facility Information	
Type of Waste	Industrial Wastewater (Water used for potato washing and conveyance only)
Method of Treatment	Slow Rate Land Application
Irrigated Acres	138 Acres
Type of Facility	Potato Fresh Pack Operation
Domestic Sewage System	On-site sewage disposal
Domestic Water Supply System	On-site potable water supply wells

Facility Information	
Facility Location	3 miles north-east of Pingree, Idaho
Legal Location	Township 3 South, Range 33 East, Parts of Sections 22 & 27
County	Bingham
USGS Quad	Rockford (Southwest Quad)
Soils on Site	Declo Loam ranging from 0 – 12% slopes, Portino Silt Loam, 0-4% slopes, Tenno Extremely Stony Loam, Undulating
Depth to Ground Water	Approximately 50 feet (seasonal occurrence)
Beneficial Uses of Ground Water	Agricultural, Industrial, Domestic, Aquaculture
Nearest Surface Water	Aberdeen-Springfield Canal
Beneficial Uses of Surface Water	Agricultural, Industrial, Aquatic Biota
Facility Contact Person Mailing Address Phone/Fax Number	Bryan Wada, Chief Operating Officer 326 South 1400 West Pingree, ID 83262 208-684-9801

E. Compliance Schedule For Required Activities

Section E Notes

E.1 The Permittee shall complete activities required in Table E-1 on or before the Completion Date unless the Department approves an alternative date in writing. Where the required submittal is a work plan or schedule for improvements to the wastewater land application system, the Department will respond with any comments, questions or requests for further information within thirty (30) days of receipt of the submittal. If the Department requests further information, the Permittee shall respond within thirty (30) days of the Department's request. The above-described review process will repeat until necessary modifications to the work plan or schedule are completed by the Permittee and approved by the Department. If the Permittee fails to submit an approveable document, as determined by the Department, within one-hundred and twenty (120) days past the original submittal due date, the Permittee may be deemed to be in violation of this permit.

E.2 If any event occurs that may delay the performance of any requirement specified in this permit, the Permittee shall notify the Department in writing within ten (10) days of the date the Permittee knew, or should reasonably have known, of the event. The notice under this paragraph shall describe the anticipated consequences of the delay, measures taken by the Permittee to prevent or minimize the delay, and a schedule by which those measures will be implemented. The Permittee shall utilize all reasonable measures to avoid or minimize delays. If the Department determines that the delay, or anticipated delay, in achievement of any requirement of the permit arises from causes beyond the control of the Permittee (a *force majeure* event), the time for performance of the requirement that is affected by the *force majeure* event will be extended by the Department for such time as the Department determines necessary to complete that requirement. The Department may pursue appropriate enforcement with

respect to any delay that does not arise from a *force majeure* event.

E.3 The Permittee shall implement all plans required in Section E upon approval by the Department. All plans required in Section E., upon Department approval, are incorporated by reference into and enforceable as a part of the permit.

E.4 The Permittee may submit revised management plans required in CA-171-01, CA-171-02 and CA-017103 as individual documents *or* as sub-parts incorporated into a comprehensive, system-wide Plan of Operation.

Table E-1 Compliance Schedule for Required Activities

Compliance Activity Number Completion Date	Compliance Activity Description
CA-171-01 Twelve (12) months following permit issuance	The Permittee shall update the existing Plan of Operation (PO) to reflect new or modified O&M requirements, wastewater volumes or characteristics.
CA-171-02 Twelve (12) months following permit issuance	1) The Permittee shall update the following management plans to reflect new or modified O&M requirements, wastewater volumes or characteristics. a) Odor Management Plan (OMP). The updated nuisance management plan must describe typical and expected causes of nuisance conditions and associated management or operational strategies intended to minimize or prevent such conditions. b) Buffer Zone Plan (BZP). The BZP must delineate, by mapping, hydraulic management units and near-by features of interest including, but not limited to dwellings, public access areas, waterways (natural and artificial), and ground water wells (domestic, irrigation and monitoring). See also Section note F-2 and Table F-2. c) Waste Solids Management Plan (WSMP). The plan shall address the management of all waste solids associated with wastewater treatment processes to demonstrate that requirements in Section I, Paragraph 5 are being fulfilled.

Compliance Activity Number Completion Date	Compliance Activity Description
CA-171-03 Twelve (12) months following permit issuance	1) The Permittee shall submit a Sampling & Analysis Plan (SAP) that includes: a) A comprehensive description of environmental sampling and analysis procedures (including those necessary for conducting all sampling and monitoring required in Table G-1); b) Detailed quality control/quality assurance provisions.
CA-171-04 Forty-eight (48) months following permit issuance	1) The Permittee shall submit a work plan for the installation of a ground water monitoring network. Based on the best available information on regional ground water flow direction, the work plan shall show proposed locations and design schematics for a minimum of one (1) upgradient and two (2) downgradient ground water monitoring wells. a) Following Department approval of the work plan, the Permittee shall install a minimum of three (3) ground water monitoring wells (one upgradient, two downgradient). **OR** 2) Provide to the Department for review and approval an evaluation that certifies that there is minimal potential for migration of constituents from any HMU to the uppermost aquifer during the active life of the unit. The evaluation must demonstrate that there will be no significant degradation of ground water quality for constituents of concern. The demonstration must be certified by a qualified ground water scientist and must be based upon: a) Site-specific field collected measurements, sampling and analysis of physical, chemical, and biological processes affecting contaminant fate and transport, and b) Contaminant fate and transport predictions that maximize contaminant migration and consider impacts on human health and environment.
CA-171-05 Six (6) months prior to permit expiration	The Permittee shall conduct a seepage loss evaluation for each lagoon/storage structure listed in Table K-5. The Permittee shall repair, replace or properly abandon structures that exceed a seepage rate of 0.125 inches per day.

F. Permit Limits and Conditions

Section F Notes

F.1 The Permittee is allowed to apply wastewater and treat it on a land application site as prescribed in the table below and in accordance with all other applicable permit conditions and schedules.

Table F-1 Site Specific Permit Conditions

PERMIT CONDITION	PERMIT REQUIREMENT/DESCRIPTION
Type of Wastewater	Wastewater used for fresh potato washing and conveyance

PERMIT CONDITION	PERMIT REQUIREMENT/DESCRIPTION
Application Site Area	138 active acres (see Table K-1 Hydraulic Management Units)
Application Season	Year Round
Growing Season (GS)	April 1 – October 31
Non-Growing Season (NG)	November 1 through March 31
Method of Treatment and Process Description	In-plant pre-treatment including gross filtration, clarification via proprietary cyclone clarifier. Final treatment via land application for beneficial re-use
Growing Season Maximum Wastewater Hydraulic Loading (Sum of WW + SIW)	HLR_{GS} = Irrigation Water Requirement (IWR). See Definitions. Hydraulic applications shall generally follow consumptive use rates for the crop throughout the growing season.
Non- Growing Season Maximum Wastewater Hydraulic Loading	$HLR_{NGS}=(AWC+E-PPT_{NGS})+LR$. See for additional information on evapotranspiration and precipitation values.
COD Loading[1] (Seasonal Basis)	50 lb./ac-day GS and NGS
Annual Nitrogen Loading	150% of typical crop uptake
Mixing Pond	HDPE lined pond for mixing fresh and wastewater prior to land application, ca. 1,200,000 gallon capacity
Buffer Zones	See Section Note F-2 and Table F-2 Buffer Zone Requirements
Grazing	Grazing is allowed only under the provisions of a Grazing Management Plan approved by the Department
Flow Measurement and Calibration	The Permittee shall calibrate flow meters and pumps annually for all meters and pumps used to directly or indirectly measure wastewater and supplemental irrigation water flows applied to the land application treatment fields. Calibration documentation shall be submitted to DEQ annually with the Annual Report as required by Sections E. and G. of this permit.

[1] COD loading is calculated as the mass of COD applied during the GS or NGS to a given HMU divided by the number of acres in the HMU and by the number of days in the respective season. This result is compared to the permit limit to determine permit compliance.

PERMIT CONDITION	PERMIT REQUIREMENT/DESCRIPTION
Construction Plans & Specifications	Pursuant to IC§39-118, detailed plans and specifications shall be submitted to DEQ for review and approval prior to construction, modification, or expansion of any wastewater treatment, storage or conveyance facilities or structures. Within 30 days of completion of construction, the Permittee shall submit as-built plans for review and approval or a letter from an Idaho registered Professional Engineer certifying that the wastewater facilities or structures were constructed in substantial accordance with the approved plans and specifications.
Cross-Connection Controls	For systems with wastewater and fresh irrigation water interconnections, DEQ-approved backflow prevention devices are required. The Permittee shall test mechanical devices annually for proper operation as required by Section G. DEQ approved permanent structures such as siphons or air gaps need not be re-tested unless physical changes are made to the structure.

F.2 Buffer zones separating features of interest from land application areas shall be maintained as required in Table F-2 Buffer Zone Requirements. The Permittee may use alternative buffer distances if approved mitigation measures are implemented.

F.3 Notwithstanding any other provision of this permit, including without limitation the buffer zones set forth herein, the Permittee shall comply with the following: 1) wastewater applied by the Permittee shall be restricted to the premises of the land application site, and 2) the Permittee shall not discharge wastewater to surface waters of the state, without first obtaining all permits and other authorizations required by state and federal law.

Table F-2 Buffer Zone Requirements

Feature of Interest	Required Buffer Distance (feet)	Alternative Buffer Distance[(a)] (feet)
Dwellings	300	100
Public access areas	50	0
Natural surface water bodies	100	50
Irrigation canals[(b)]	50	to be determined

(a) Buffer zone distances may be reduced to the alternative distances in the last column through employing approved mitigation measures including:

- Establishment of an effective physical barrier,
- Utilization of non-spray irrigation (drag tubes or equivalent),
- Managing irrigation systems in a manner that would prevent any spray drift towards the feature of interest, or
- Run-off and/or over-spray controls.

(b) The buffer distance to irrigation canals may be reduced to less than the required distance if proposed by the Permittee and approved by the Department. The proposal for a reduced buffer zone must be supported with engineering designs and calculations showing that wastewater cannot leach or over-spray into area canals.

G. Monitoring Requirements

Section G Notes

G.1 The Permittee shall monitor the operation and efficiency of all treatment facilities. The Permittee shall monitor and measure parameters as stated in the Facility Monitoring Table in this section.

G.2 Samples shall be collected at times and locations that represent typical environmental and process parameters being monitored.

G.3 Wastewater shall be sampled as follows: 24-hour composite samples having, at a minimum, four (4) aliquots evenly distributed over time shall be taken.

G.4 The Permittee shall employ appropriate analytical methods, as given in the *1994 Technical Interpretive Supplement*, or as approved by the Department.

G.5 A description of approved sample collection methods, appropriate analytical methods and companion QA/QC protocol shall be included in the facility's Plan of Operation or Sampling & Analysis Plan as necessary.

G.6 Following two (2) years of operation under this permit, the Permittee may petition the Department for a waiver or modification of sampling requirements listed in Table G-1. The Department may modify sampling requirements if the following conditions are met;

1) the Permittee has determined that information obtained from a particular sampling parameter or required interval is not providing data necessary for site operation or management,

2) the Permittee has compiled and analyzed empirical data sufficient to validate that the performance of the wastewater-land treatment system can be accurately monitored using a less rigorous environmental sampling regimen, and

3) the Permittee has submitted, for Department review and approval, a written proposal for an alternative sampling regimen.

G.7 Ground Water Monitoring Procedure: Ground water monitoring wells shall be purged a minimum of three (3) casing volumes and/or until field measurements of at least two of pH, specific conductance and temperature meet the following conditions: successive temperature values measured at least five minutes apart are within one degree Celsius of each other, pH values for two successive measurements measured at least five minutes apart are within 0.2 units of each other, and two successive specific conductance values measured at least five minutes apart are within 10% of each other. This procedure will determine when the wells are suitable for sampling for constituents required by the permit. Other procedures, such as low flow sampling, may be considered by DEQ for approval. The depth to water (static water level) shall be measured prior to purging the well. (Required only if monitoring wells are installed pursuant to requirements in CA-171-03).

G.8 For SMU's >15 acres, the Permittee shall collect soil samples within each SMU at a minimum of ten random (10) locations. For SMU's <15 acres, the Permittee shall collect soil samples at five random (5) locations. At each sample location, individual samples must be taken at four (4) depths, 0-12 inches, 12-24 inches, 24-36 inches and 48-60 inches (or refusal). Samples from the same depth within a single SMU may be composited by depth to yield a minimum of three (3) samples per SMU for analysis. Sample locations must be spatially representative of the unit; must consider site-specific characteristics such as topography and drainage; and must exclude unusual areas such as erosion channels, dead furrows and fence lines.

G.9 Unless otherwise agreed to in writing by the Department, data collected and submitted shall include, but not be limited to, the parameters and frequencies in the following table.

Table G-1 Facility Monitoring Table

FREQUENCY	MONITORING POINT	DESCRIPTION AND TYPE OF MONITORING	PARAMETERS
Daily	Each HMU	WW Volume applied	MG and ac-in
Daily	Each HMU	SIW Volume applied	MG and ac-in
Monthly	Active WW Sampling Points in Table K-2	WW Quality, 24 hour composite sample (see note G-3)	TKN, NH_3-N, NO_3-N, P, COD, EC, TDS, VDS, pH
Monthly (GS)	Each HMU	Estimate IWR for each crop type during the GS	Volume (MG & inches) to each HMU – record monthly for the GS
Quarterly	Ground water monitoring wells[2]	Grab samples of ground water. See Section note G-6	static water level, pH, EC, COD, total P, NH_4-N, NO_3-N, SO_4, Cl, total and dissolved Fe, total and dissolved Mn, TDS, VDS, Na, Ca, Mk, K
Annually	Domestic wells within ¼ mile of all active treatment acreage[3]	Grab samples of ground water. See Section note G-6	pH, EC, COD, total P, NH_4-N, NO_3-N, SO_4, Cl, total and dissolved Fe, total and dissolved Mn, TDS, VDS, Na, Ca, Mg, K
GS – each harvest	Each Crop type, Each Hydraulic Unit	Crop Yield (crop tissue mass removal)	Tons/acre, Bu/acre, etc. as appropriate and total yield per HMU (specify moisture basis)
GS – each harvest	Each HMU	Crop tissue analysis *or* crop nutrient concentration values from standard tables[4] Calculate nitrogen/ash removal	Nitrogen (nitrate, protein) & Ash removed in lbs/acre-yr
Twice Yearly (pre- and post-growing season)	Each Soil Monitoring Unit	See section note G.8	pH, plant available P (Olsen Method), K, NO_3-N, NH_4-N, EC, %OM
Annually	Each HMU	calculate nitrogen loading from WW application	Total N in lb/ac-yr
Annually	Each HMU	calculate nitrogen loading from supplemental fertilizer application	Fertilizer N in lbs/ac-yr
Annually	Each HMU	calculate COD loading	COD Applied in lbs/acre-day
One Time (prior to first period of NGS operation under this permit)	Each HMU	Estimate HLR_{NGS} for each management unit during the NGS	Volume (MG & ac-in) to each HMU – record monthly for the NGS

[2] Required only if monitoring wells are installed pursuant to requirements in CA-171-03.

[3] Annual domestic well sampling is recommended but not required and applicable only where the owner's permission is obtained.

[4] The Permittee may choose to use values from standard tables for crop nutrient concentration values so long as the published moisture content can be used from the table.

FREQUENCY	MONITORING POINT	DESCRIPTION AND TYPE OF MONITORING	PARAMETERS
Annually	Flow measuring devices	Flow measurement device calibration	Document calibration of all flow meters measure all wastewater and supplemental irrigation water flows applied to each HMU
Annually	Mechanical cross-connection control devices at all points of interconnection between WW and potable or surface water sources	Testing of backflow prevention device	Document testing of devices. Report date(s) and results of the test (pass or fail). Report failed tests and the date of repair or replacement.
Twice Spring 2006 and 2008	SIW sampling point in Table K-3	Grab sample of supplemental irrigation water	NO_3-N, P, TDS, VDS, total P
Twice Spring 2006 and 2008	Each soil monitoring unit	See Section Note G.8	SAR

H. Standard Reporting Requirements

Section H Notes

H.1 The Permittee shall complete and submit reports and documentation described in Table H-1 by the prescribed due dates unless otherwise agreed to in writing by the Department.

H.2 No later than January 31 of each year, the Permittee shall submit an Annual Wastewater-Land Application Site Performance Report ("Annual Report"), addressing content requirements in Table H-2. The Annual Report shall cover the previous operating year (November 1 through October 31).

H.3 The Annual Report shall include an interpretive discussion of monitoring data (ground water, vadose zone, hydraulic loading, wastewater etc.) with particular respect to environmental impacts by the facility and shall be prepared by a competent environmental professional

H.4 As part of the Annual Report, the Permittee shall submit all laboratory analytical reports for monitoring required or recommended by Table G-1 (including analytical results from sampling conducted at frequencies greater than those prescribed).

H.5 The Permittee shall submit copies of the annual report to the Department as indicated:

Three (3) copies to:
Engineering Manager or Wastewater Land Application Project Officer
Idaho Department of Environmental Quality
Pocatello Regional Office, 444 Hospital Way, #300
Pocatello, ID 83201 208-236-6160

Table H-1 Reporting Summary Table

TYPE OF REPORT	REPORT FORMAT	DATE DUE	CONTENTS
Annual Report	Preprinted DEQ annual report forms or electronic format	January 31	as stated in Table H-2
Notice of Completion	Submittal or letter	within 30 days of completion	Compliance activity submittal, or compliance activity completion notification letter
Notice of Non-Compliance	See Section I., Item 8		

Table H-2 Annual Report Contents Table

ANNUAL REPORT CONTENTS TABLE	UNITS
annual flow to each Hydraulic Management Unit	gallons/year
annual loading to each Hydraulic Management Unit	inches/year
average nutrient loading to each management unit for growing season	amount in total pounds, amount in pounds per acre
average nutrient loading to each management unit for the non-growing season	amount in total pounds, amount in pounds per acre
date and amount of any supplemental fertilizers added to each management unit	date, amount in total pounds, amount in pounds per acre
annual crop plan	written narrative
laboratory test results for monitoring required in Section G	as specified in Section E
laboratory test results for facility monitoring not listed in Section G	as specified in approved test methods
status of items listed in Section E, Compliance Schedule for Required Activities	written narrative
Description of any actual or potential environmental impacts resulting from the wastewater land application system.	written narrative

I. Standard Permit Conditions: Procedures and Reporting

1. The Permittee shall at all times properly maintain and operate all structures, systems, and equipment for treatment, operational controls and monitoring, which are installed or used by the Permittee to comply with all conditions of the permit or the Wastewater-Land Application Permit Regulations, in conformance with a DEQ approved, current Plan of Operations (Operations and Maintenance Manual) which describes in detail the operation, maintenance, and management of the wastewater treatment system. This Plan of Operations shall be updated as necessary to reflect current operations.
2. Wastewater(s) or recharge waters applied to the land surface must be restricted to the premises of the application site unless permission has been obtained from the DEQ authorizing a discharge into the waters of the State as stated in IDAPA 58.01.02.600.02.
3. Wastewater must not create a public health hazard or nuisance condition as stated in IDAPA 58.01.02.600.03. In order to prevent public health hazards and nuisance conditions the Permittee shall:
   a. Apply wastewater as evenly as practicable to the treatment area;
   b. Prevent organic solids (contained in the wastewater) from accumulating on the ground surface to the point where the solids putrefy or support vectors or insects; and
   c. Prevent wastewater from ponding in the fields to the point where the ponded wastewater putrefies or supports vectors or insects.
4. The Permittee shall:
   a. Manage the wastewater land application treatment site as an agronomic operation where vegetative cover is grown and harvested or grazed to utilize the nutrients and minerals in the wastewater, and,
   b. Not hydraulically overload any particular areas of the wastewater land application treatment site.
5. All waste solids, including dredge and sludge wastes, shall be utilized or disposed in a manner which will prevent their entry, or the entry of contaminated drainage or leachate therefrom, into the waters of the state such that health hazards and nuisance conditions are not created; and to prevent impacts on designated beneficial uses of the ground water and surface water. The Permittee's management of waste solids shall be governed by the terms of the DEQ approved Waste Solids Management Plan, which upon approval shall be an enforceable portion of this permit.
6. If the Permittee intends to continue operation of the permitted facility after the expiration of an existing permit, the Permittee shall apply for a new permit at least six months prior to the expiration date of the existing permit in accordance with the Waste Water Land Application Permit Regulations and include seepage tests on all lagoons per latest DEQ procedures.
7. The Permittee shall allow the Director of the Idaho Department of Environmental Quality or the Director's designee (hereinafter referred to as Director), consistent with Title 39, Chapter 1, Idaho Code, to:
   a. Enter the permitted facility,
   b. Inspect any records that must be kept under the conditions of the permit.
   c. Inspect any facility, equipment, practice, or operation permitted or required by the permit.
   d. Sample or monitor for the purpose of assuring permit compliance, any substance or any parameter at the facility.
8. The Permittee shall report to the Director under the circumstances and in the manner specified in this section:
   a. In writing thirty (30) days before any planned physical alteration or addition to the permitted facility or activity if that alteration or addition would result in any significant change in information that was submitted during the permit application process.
   b. In writing thirty (30) days before any anticipated change which would result in non-compliance with any permit condition or these regulations.

c. Orally within twenty-four (24) hours from the time the Permittee became aware of any non-compliance which may endanger the public health or the environment at telephone numbers provided in the permit by the Director (see below)
   i) Pocatello Regional Office: 236-6160 Emergency 24 Hour Number: 1-800-632-8000

d. In writing as soon as possible but within five (5) days of the date the Permittee knows or should know of any non-compliance unless extended by the DEQ. This report shall contain:
   i) A description of the non-compliance and its cause;
   ii) The period of non-compliance including to the extent possible, times and dates and, if the non-compliance has not been corrected, the anticipated time it is expected to continue; and
   iii) Steps taken or planned to reduce or eliminate reoccurrence of the non-compliance.

e. In writing as soon as possible after the Permittee becomes aware of relevant facts not submitted or incorrect information submitted, in a permit application or any report to the Director. Those facts or the correct information shall be included as a part of this report.

9. The Permittee shall take all necessary actions to prevent or eliminate any adverse impact on the public health or the environment resulting from permit noncompliance.

10. The Permittee shall determine (on an on-going basis) if any noxious weed problems relate to the permitted sites. If problems are present, coordinate with the Idaho Department of Agriculture or the local County authority regarding their requirements for noxious weed control. Also address these control operations in an update to the Operations and Maintenance Manual.

J. Standard Permit Conditions: Modifications, Violation, and Revocation

1 The Permittee shall furnish to the Director within reasonable time, any information including copies of records, which may be requested by the Director to determine whether cause exists for modifying, revoking, re-issuing, or terminating the permit, or to determine compliance with the permit or these regulations.

2 Both minor and major modifications may be made to this permit as stated in IDAPA 58.01.17.700.01 and 02 with respect to any conditions stated in this permit upon review and approval of the DEQ.

3 Whenever a facility expansion, production increase or process modification is anticipated which will result in a change in the character of pollutants to be discharged or which will result in a new or increased discharge that will exceed the conditions of this permit, or if it is determined by the DEQ that the terms or conditions of the permit must be modified in order to adequately protect the public health or environment, a request for either major or minor modifications must be submitted together with the reports as described in Section H. *Standard Reporting Requirements*, and plans and specifications for the proposed changes. No such facility expansion, production increase or process modification shall be made until plans have been reviewed and approved by the DEQ and a new permit or permit modification has been issued.

4 Permits shall be transferable to a new owner or operator provided that the Permittee notifies the Director by requesting a minor modification of the permit before the date of transfer.

5 Any person violating any provision of the Wastewater Land Application Permit Regulations, or any permit or order issued there under shall be liable for a civil penalty not to exceed ten thousand dollars ($10,000) or one thousand dollars ($1,000) for each day of a continuing violation, whichever is greater. In addition, pursuant to Title 39, Chapter 1, Idaho Code, any willful or negligent violation may constitute a misdemeanor.

6 The Director may revoke a permit if the Permittee violates any permit condition or the Wastewater Land Application Permit Regulations.

7 Except in cases of emergency, the Director shall issue a written notice of intent to revoke to the Permittee prior to final revocation. Revocation shall become final within thirty-five (35) days of receipt of the notice by the Permittee, unless within that time the Permittee request an administrative hearing in writing to the Board of Environmental Quality pursuant to the Rules of Administrative Procedures contained in IDAPA 58.01.23.

8 If, pursuant to Idaho Code 67-5247, the Director finds the public health, safety or welfare requires emergency action, the Director shall incorporate findings in support of such action in a written notice of emergency revocation issued to the Permittee. Emergency revocation shall be effective upon receipt by the Permittee. Thereafter, if requested by the Permittee in writing, a revocation hearing before the Board of Environmental Quality shall be provided. Such hearings shall be conducted in accordance with the Rules of Administrative Procedures contained in IDAPA 58.01.23.

9 The provisions of this permit are severable and if a provision or its application is declared invalid or unenforceable for any reason, that declaration will not affect the validity or enforceability of the remaining provisions.

10 The Permittee shall notify the DEQ at least six (6) months prior to permanently removing any permitted land application facility from service, including any treatment, storage, or other facilities or equipment associated with the land application site. Prior to commencing closure activities, the Permittee shall: a) participate in a pre-site closure meeting with the DEQ; b) develop a site closure plan that identifies specific closure, site characterization, or cleanup tasks with scheduled task completion dates in accordance with agreements made at the pre-site closure meeting; and c) submit the completed site closure plan to the DEQ for review and approval within forty-five (45) days of the pre-site closure meeting. The Permittee must complete the DEQ approved site closure plan.

K. Appendices

Appendix 1. Environmental Monitoring Serial Numbers

Table K-1 Hydraulic Management Units

Serial Number	Hydraulic Management Unit Description (Common Name)	Acres	Active HMU?
MU-017101	Center Pivot	67	☒
MU-017102	Hand Lines	43	☒
MU-017103	Irrigated Pasture	28	☒
Total Irrigated Acres		138	

Table K-2 Wastewater Sampling Points

Serial Number	Description of Wastewater Sampling Location	Active Monitoring Point?
WW-017101	WW to Land Application	☒

Table K-3 Surface Water Sampling Points

Serial Number	Surface Water Sampling Points Description of Location	Active Monitoring Point?
SW-017101	Aberdeen-Springfield Canal	☒

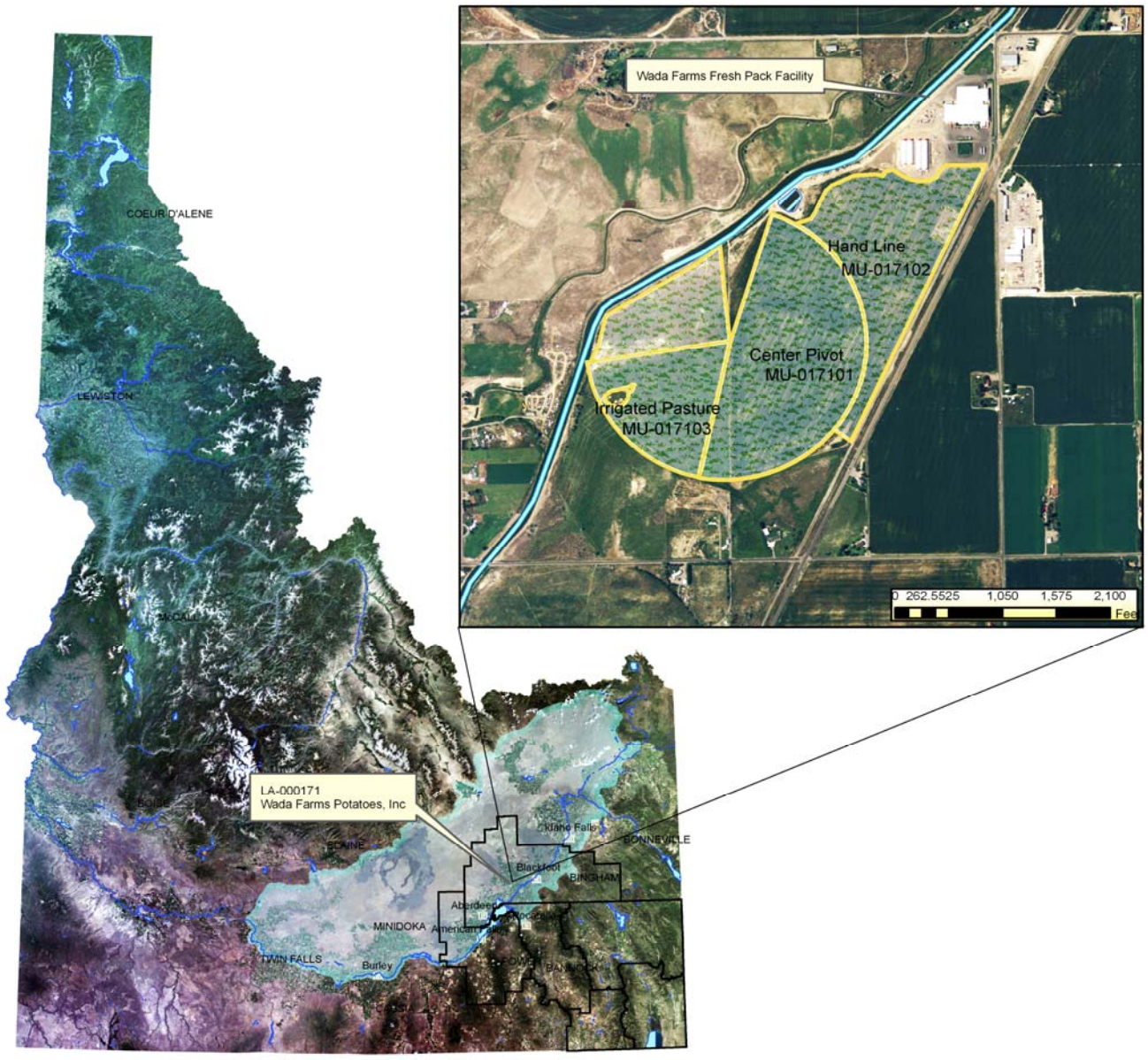
Table K-4 Soil Monitoring Units

Serial Number	Soil Monitoring Units Description of Location	Associated Hydraulic Management Unit	Active Monitoring Point?
SU-017101	Center Pivot	MU-017101	☒
SU-017102	Hand Lines	MU-017102	☒
SU-017103	Irrigated Pasture	MU-017103	☒

Table K-5 Wastewater Lagoons

Serial Number	Wastewater Lagoons Description	Active Monitoring Point?
LG-017101	Wastewater/Canal water mixing pond	☒

Appendix 2. Site Maps



SITE_ID

LA-000171

Cities

American Falls; Blackfoot; Burley; Idaho Falls; Pocatello; Aberdeen

Surface Water - Rivers and Lakes

AQUIFER

Snake River Aquifer

N

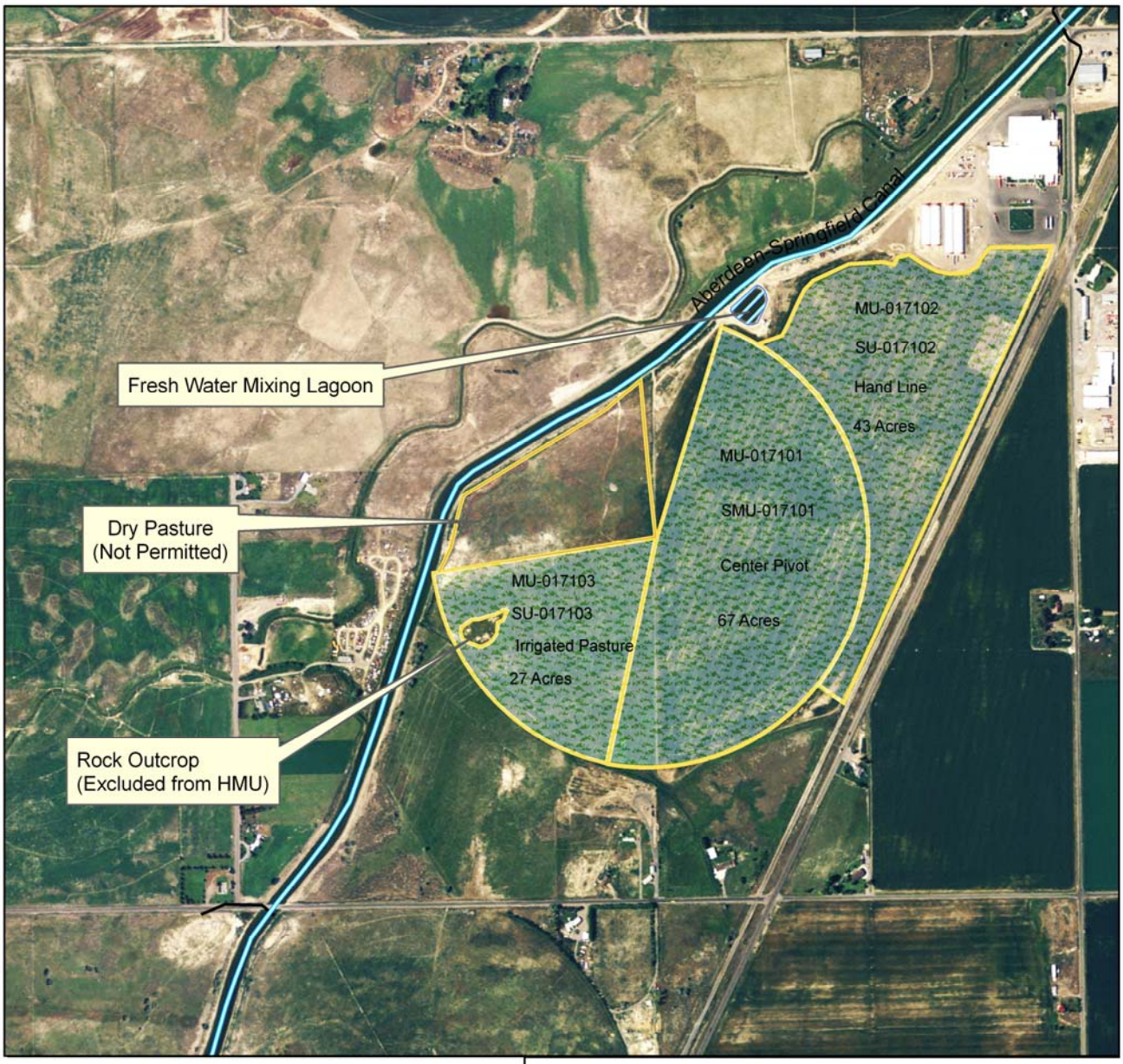
Map Projection: Idaho Transverse Mercator (IDTM83)
Units: Meters
Datum: NAD 1983
Prepared by Tom Hepworth, ArcGIS 9.0
Data Sources: DEQ SDE/Local Coverages & Layers

Restriction of Liability: Neither the State of Idaho nor the Idaho Department of Environmental Quality, nor any of their employees make any warranty, express or implied, or assume any legal liability or responsibility for the accuracy, completeness or usefulness of any information or data provided Metadata is provided for all datasets, and no data should be used without first reading and understanding its limitations. The data could include technical inaccuracies or typographical errors. The Department of Environmental Quality may update, modify or revise the data used at any time, without notice.

Figure 1 - Wada Farms Potatoes, Inc
WLAP #LA-000171-02
Vicinity Map

State of Idaho
Department of Environmental Quality
444 Hospital Way, #300
Pocatello ID 83201 236-6160

Wastewater-Land Application Permitting Program
Pocatello Regional Office



Legend

Hydraulic Management Units

- Not Active
- Active
- Soil Management Units
- Canals

N

0 315 630 1,260 1,890 2,520 Feet

MAP PROJECTION: IDAHO TRANSVERSE MERCATOR (IDTM) NAD83
UNITS: METERS
DATUM: NAD 1983
PREPARED BY TOM HEPWORTH, ARCGIS 9.0
DATA SOURCES: DEQ SDE AND LOCAL COVERAGES & LAYERS

RESTRICTION OF LIABILITY: NEITHER THE STATE OF IDAHO NOR THE IDAHO DEPARTMENT OF ENVIRONMENTAL QUALITY, NOR ANY OF THEIR EMPLOYEES MAKE ANY WARRANTY, EXPRESS OR IMPLIED, OR ASSUME ANY LEGAL LIABILITY OR RESPONSIBILITY FOR THE ACCURACY, COMPLETENESS OR USEFULNESSS OF ANY INFORMATION OR DATA PROVIDED.

METADATA IS PROVIDED FOR ALL DATASETS, AND NO DATA SHOULD BE USED WITHOUT FIRST READING AND UNDERSTANDING ITS LIMITATIONS. THE DATA COULD INCLUDE TECHNICAL INACCURACIES OR TYPOGRAPHICAL ERRORS. THE DEPARTMENT OF ENVIRONMENTAL QUALITY MAY UPDATE, MODIFY OR REVISE THE DATA USED AT ANY TIME, WITHOUT NOTICE.

Figure 2 - Wada Farms Potatoes, Inc
Hydraulic Management Units
Soil Management Units

State of Idaho
Department of Environmental Quality
444 Hospital Way, #300
Pocatello ID 83201 236-6160

Wastewater-Land Application Permitting Program
Pocatello Regional Office

Appendix 3. Non-Growing Season Wastewater Application Rates

Guideline NGS (non-growing season) hydraulic loading rates for this permit will be calculated using the formula from the *Handbook for Land Application of Municipal and Industrial Wastewater, April 1996* on page IV-11:

Hydraulic Loading Rate $_{NGS}$ = Soil AWC (Available Water-Holding Capacity) +

ET_{NGS} (Evapotranspiration $_{NGS}$) - Precipitation $_{NGS}$

The following evapotranspiration and precipitation data shall be used to calculate Guideline NGS hydraulic loading rates:

Month	ET_{NGS}, inches[a]	Precipitation $_{NGS}$, inches[b]
November	0.54	0.51
December	0.30	0.68
January	0.27	0.79
February	0.41	0.59
March	1.83	0.74
Total	**3.35**	**3.31**

[a] Based on the SCS Blaney Criddle method in the SCS Irrigation Guide, Title 20, Chapter VI, 1985.

[b] Data Source: Agrimet, Bureau of Reclamation, Pacific Northwest Region, *Aberdeen, ID meteorological station (ABEI) average monthly precipitation* for the period of record from 1991 through 2002. Internet address: http://mac1.pn.usbr.gov/agrimet/yearrpt.html

If the Permittee chooses an alternative method to calculate evapotranspiration data, it shall be reviewed and approved by DEQ prior to use.